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RECYCLIZATION OF DIARYLMETHYLENEHYDRAZONES OF 5-*TERT*-BUTYL-2,3DIHYDRO-2,3FURANDIONES UNDER ACTION OF CYANOACETIC DERIVATIVES

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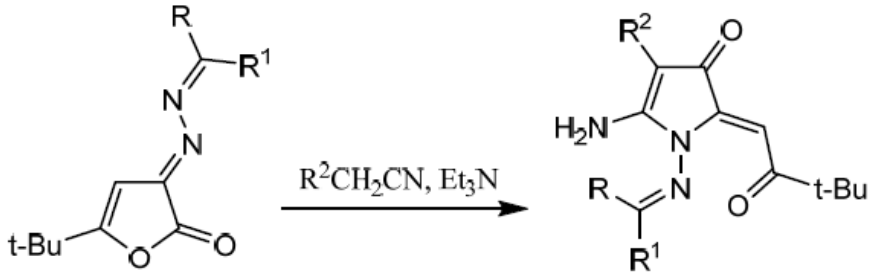
Abstract. New 2-aminopyroles were obtained by recyclization of hydrazonofuranones under the action of various derivatives of cyanoacetic acid (Scheme 1). It has been shown that the reaction proceeds in good yields in the presence of triethylamine as a catalyst [1, 2] and, therefore, we utilized it in our study. The structure of the synthesized compounds was confirmed by the data of IR, ^{1}H NMR spectroscopy, and mass spectrometry.



Scheme 1. Recyclization of hydrazonofuranones under the action of various derivatives of cyanoacetic acid.

The cytotoxic activity of 2-aminopyroles of a similar structure was previously investigated, where the studied compounds showed a high cytotoxic effect with low toxicity [3–5]. Therefore, obtaining new compounds of this series and studying their biological activity are relevant.

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